

PLAN

SANITARY SEWER PIPE

DEPTH FT	TYPE
0-14	SDR 35
14-24	SDR 26
>24	CLASS 52 DIP

- NOTES: 1. A MINIMUM FALL OF .10' ON MANHOLES THROUGH STRUCTURES AND A MINIMUM FALL OF .20' ON MANHOLES WITH 90 DEGREE BENDS IS REQUIRED.
 - 2. MANHOLES SHALL BE INSTALLED AT DISTANCES NO GREATER THAN 400' APART.
 - 3. GROUT ALL INTERIOR DOGHOUSES AND LIFT HOLES TO INSPECTORS APPROVAL
 - 4. MARKING POSTS SHALL BE SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR AT ALL MANHOLES LOCATED OUTSIDE OF THE STREET SECTION.
 - 5. SERVICES SHALL NOT ENTER MANHOLES UNLESS APPROVED BY THE CITY ENGINEER.
 - 6. INFI-SHIELD INFILTRATION BARRIER MANUFACTURED BY SEALING SYSTEMS, INC. OR APPROVED EQUAL REQUIRED ON ALL SANITARY MANHOLES UNLESS APPROVED BY THE CITY ENGINEER.
 - NO MANHOLE STEPS ALLOWED.
 - 8. 2", 4" AND 6" ADJUSTING RINGS ARE ACCEPTABLE.

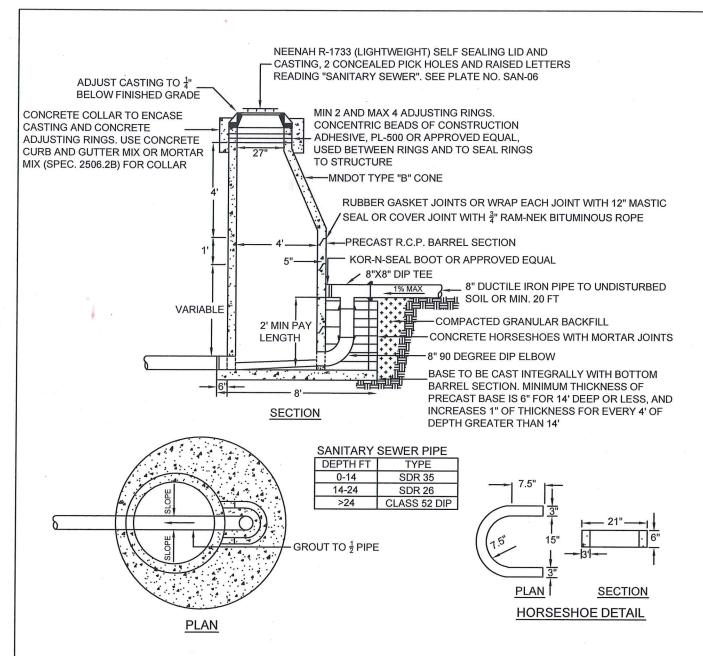
STANDARD DETAIL NO. SAN-01

SANITARY STANDARD **MANHOLE**

APPROVAL 1/16 20 1/4

CITY ENGINEER



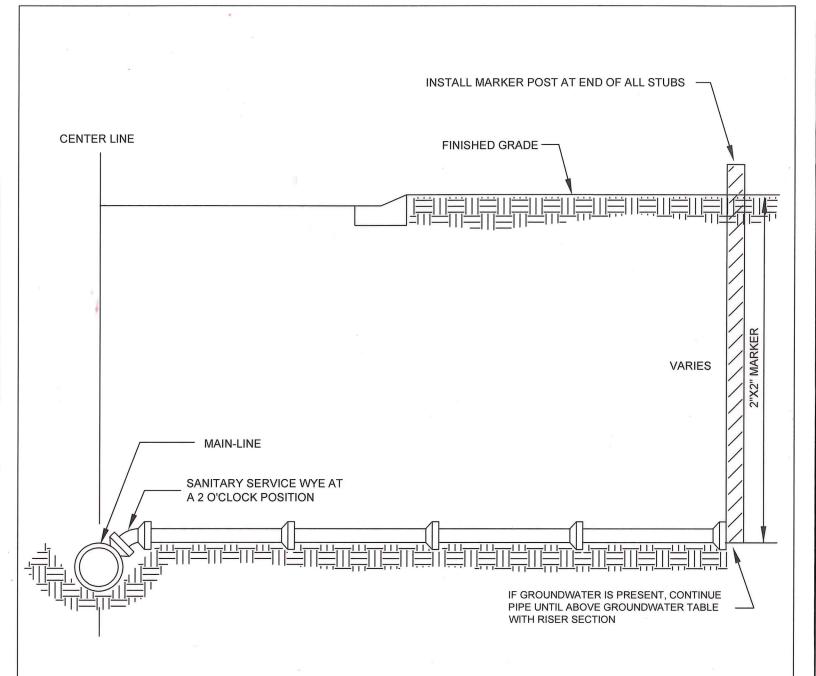


NOTES: 1. A MINIMUM FALL OF .10' ON MANHOLES THROUGH STRUCTURES AND A MINIMUM FALL OF .20' ON MANHOLES WITH 90 DEGREE BENDS IS REQUIRED.

- 2. MANHOLES SHALL BE INSTALLED AT DISTANCES NO GREATER THAN 400' APART.
- 3. GROUT ALL INTERIOR DOGHOUSES AND LIFT HOLES TO INSPECTOR'S APPROVAL
- 4. MARKING POSTS SHALL BE SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR AT ALL MANHOLES LOCATED OUTSIDE OF STREET SECTION.
- 5. SERVICES SHALL NOT ENTER MANHOLES UNLESS APPROVED BY THE CITY ENGINEER.
- 6. NO INSIDE DROPS ALLOWED.
- 7. HORSESHOES SHALL BE FILLED WITH CONCRETE MORTAR ON ALL SIDES.
- 8. INFI-SHIELD INFILTRATION BARRIER MANUFACTURED BY SEALING SYSTEMS, INC. OR APPROVED EQUAL REQUIRED ON ALL SANITARY MANHOLES UNLESS APPROVED BY THE CITY ENGINEER.
- 9. NO MANHOLE STEPS ALLOWED.
- 10. 2", 4" AND 6" ADJUSTING RING ARE ACCEPTABLE.

STANDARD DETAIL NO. SAN-02 SANITARY DROP MANHOLE APPROVAL 4 20 4





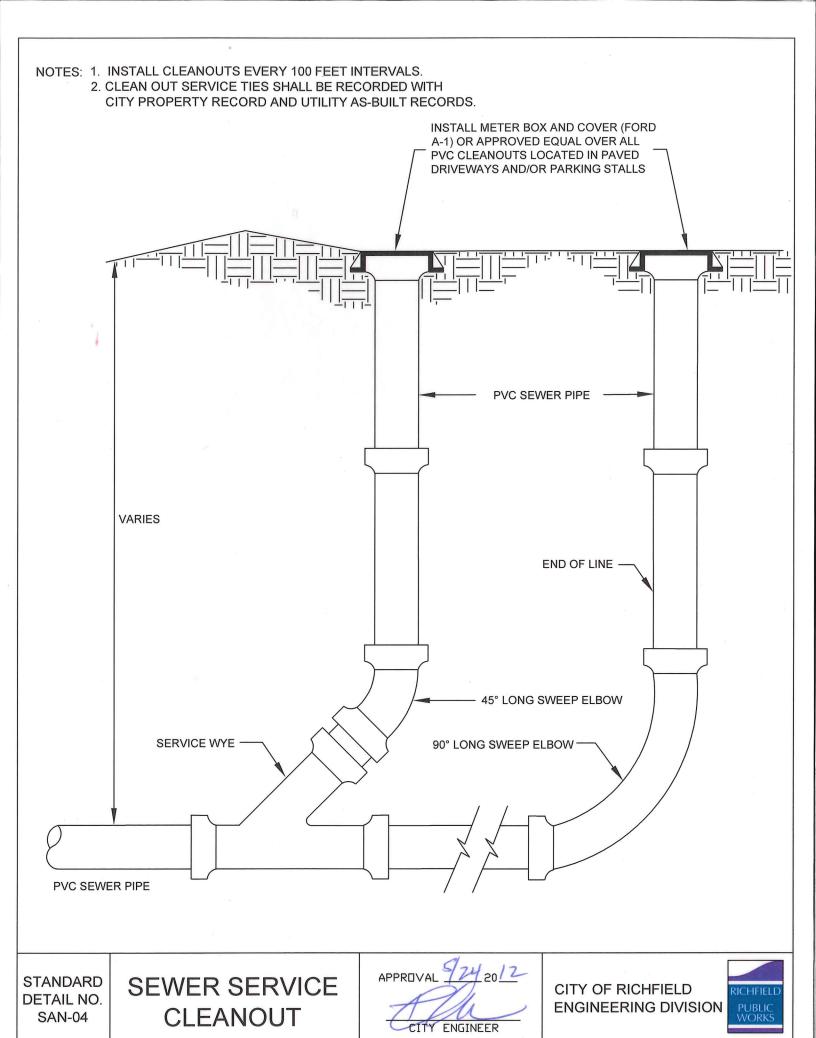
- NOTES: 1. IF MAIN-LINE IS SDR 26 OR SCHEDULE 40 THEN WYE, PIPE AND ALL BEND SHALL BE SDR 26 OR SCHEDULE 40 TO PROPERTY LINE.
 - 2. WYE, PIPE AND ALL BENDS SHALL BE A MINIMUM OF 4" FOR RESIDENTIAL AND 6" FOR COMMERCIAL.
 - 3. MINIMUM SLOPE FOR 4" AND 6" SERVICE IS 2%
 - 4. CLEANOUTS REQUIRED FOR EVERY 100' OF SERVICE.
 - EXCESSIVE SANITARY SEWER MAIN-LINE DEPTH MUST BE RECEIVED AND APPROVED. BY THE CITY ENGINEER.
 - CONNECT TO EXISTING SERVICE PIPE WITH APPROVED COMMERCIAL ADAPTOR AND ENCASE IN 6" MINIMUM CONCRETE.

STANDARD DETAIL NO. SAN-03

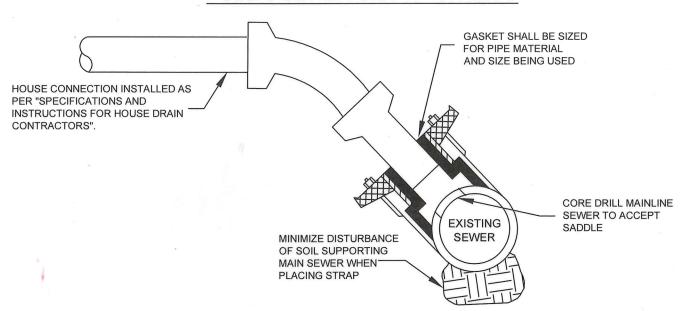
TYPICAL SANITARY SEWER CONNECTION

ENGINEER



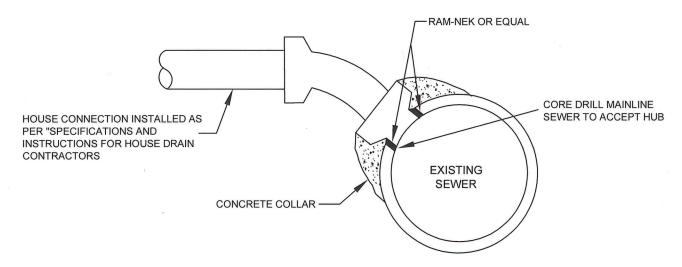


PUBLIC SEWER O.D. 48" OR LESS



- NOTES: 1. SEWER SADDLE TO BE ROMAC INDUSTRIES, INC. STYLE "CB" SADDLE OR APPROVED EQUAL.
 - 2. PVC SERVICES CONNECTED TO PVC OR VCP (10" OR LESS) SEWER MAY ALSO BE PVC SADDLE TEE AND GASKET SECURED TO PIPE WITH TWO STAINLESS STEEL COMPRESSION STRAPS. PVC SADDLE TO BE GPK OR APPROVED EQUAL.
 - 3. ALL SEWER SERVICE SADDLES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PUBLIC SEWER O.D. GREATER THAN 48"



NOTES: 1. THE HUB SHALL BE SAWCUT TO CONFORM TO THE INTERIOR OF THE PIPE.

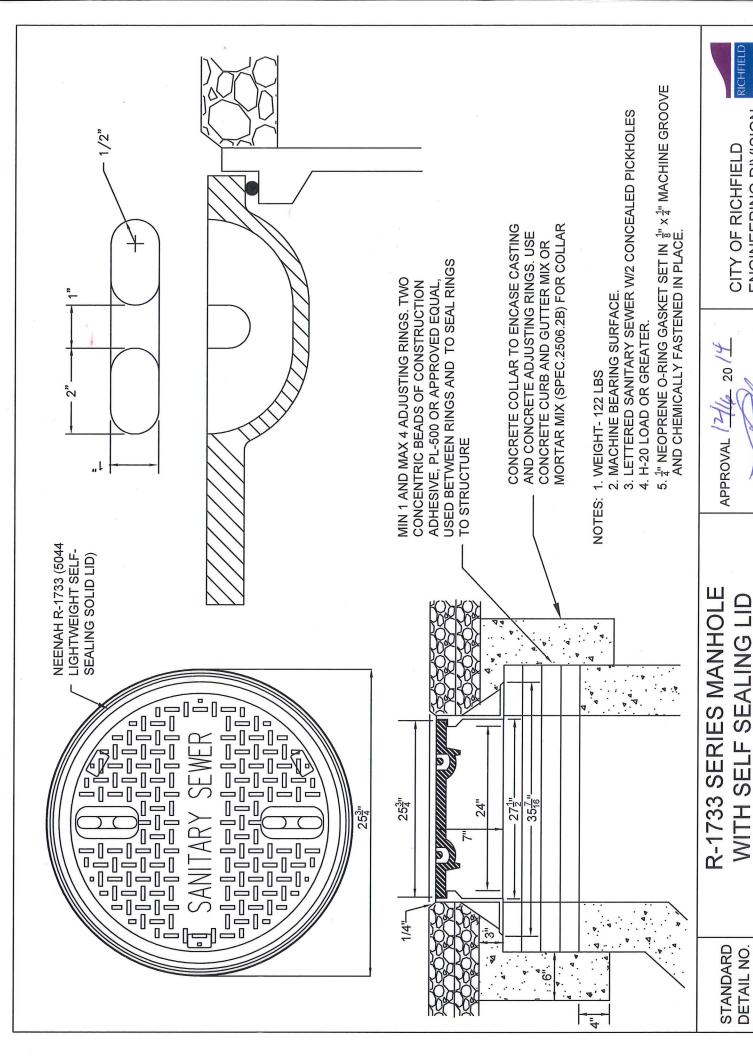
2. GROUT THE HUB WITH A MINIMUM OF 3" CONCRETE COLLAR. DO NOT ENCASE HUB JOINT TO SERVICE PIPE.

STANDARD DETAIL NO. SAN-05

SADDLE CONNECTION OF **HOUSE SERVICES**

CITY ENGINEER





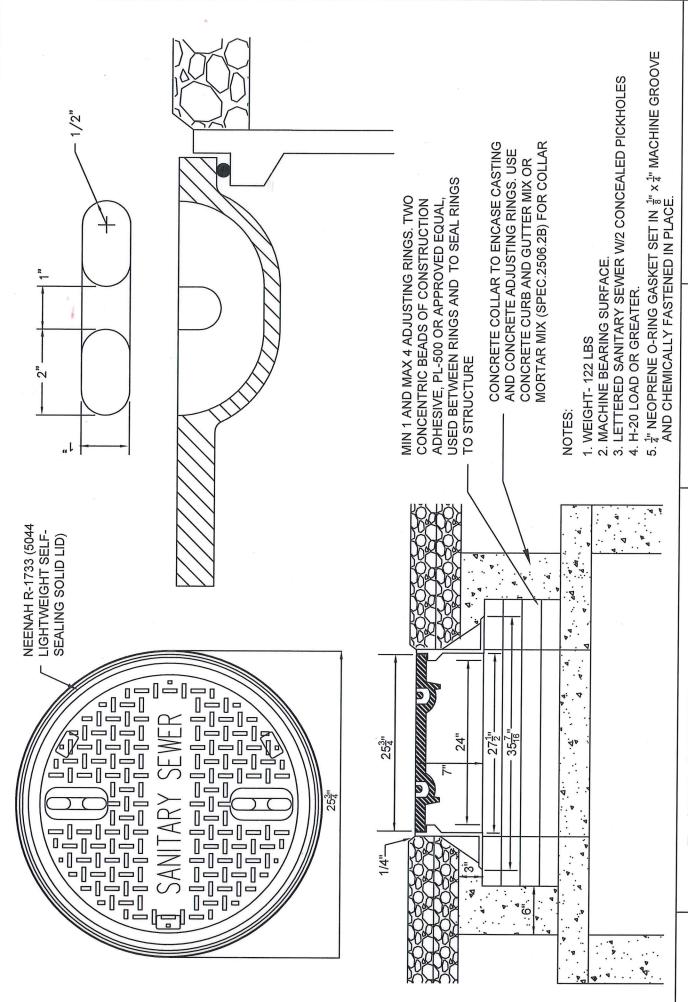
ICHFIEL

ENGINEERING DIVISION

OFF ENGINEER

(CONE SECTION)

DETAIL NO. SAN-06A

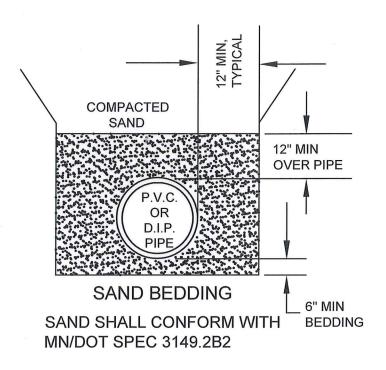


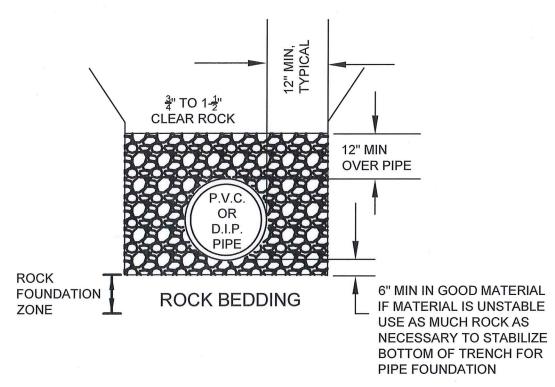
R-1733 SERIES MANHOLE WITH SELF SEALING LID (TOP SLAB)

> STANDARD DETAIL NO. SAN-06B

APPROVAL WE 20 WE CHY ENGINEER







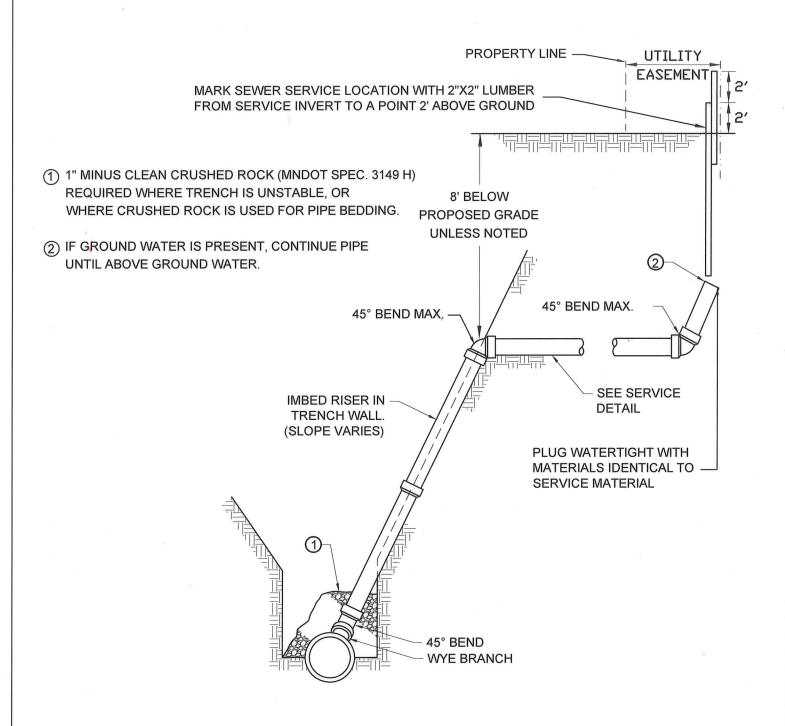
NOTES: 1. BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE PIPE UNLESS MODIFIED IN THE CONTRACT DOCUMENTS.

2. BEDDING REQUIRED FOR ALL MAINS AND SERVICES.

STANDARD DETAIL NO. SAN-07 SANITARY SEWER BEDDING

APPROVAL 12/16 20 14



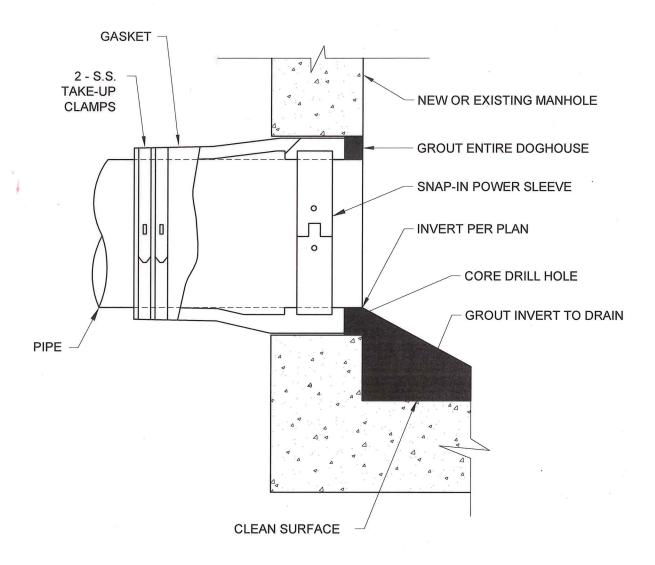


NOTE: 1. FOR SIZE AND TYPE OF MATERIALS SEE SPECS.

STANDARD DETAIL NO. SAN-08 SANITARY SEWER SERVICE RISER (PVC MAIN) APPROVAL 5/24 20 2

CITY ENGINEER



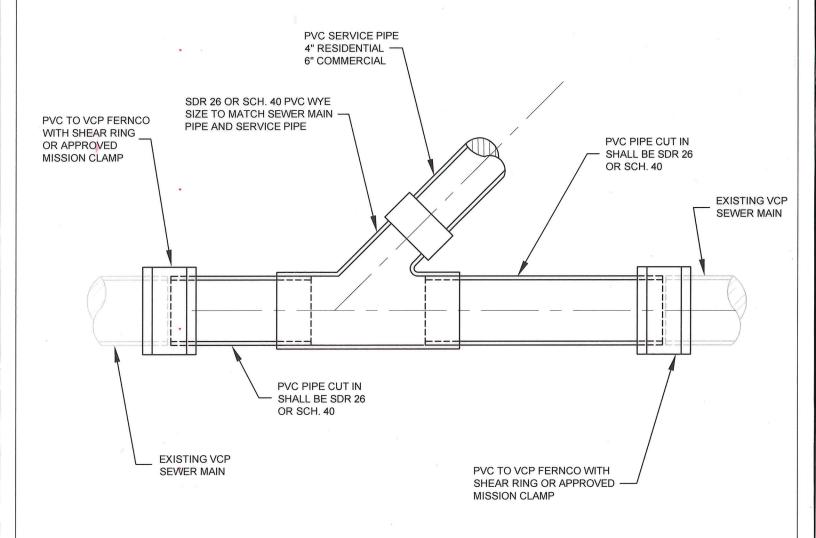


NOTE: 1. CONNECTION TO EXISTING SANITARY SEWER
MANHOLE SHALL BE CORE DRILLED WITH A SNAP
IN BOOT.

STANDARD DETAIL NO. SAN-09 WATER TIGHT SNAP-IN-SLEEVE APPROVAL 5/11/20/

CITY ENGINEER





NOTES: 1. SEE STANDARD DETAIL NO SAN-03 FOR TYPICAL SANITARY SEWER SERVICE CONNECTION DETAIL.

2. CLEAN CUT ALL PIPE ENDS.

STANDARD DETAIL NO. SAN-10 SANITARY SEWER SERVICE PVC WYE CUT INTO VCP SEWER MAIN



